### **ENVIRONMENTAL CHEMISTS**

Date of Report: 05/10/00 Date Received: 04/27/00

Project: Metro Self Monitor, M64016

Date Extracted: 05/08/00 Date Analyzed: 05/08/00

# RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Chromium	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M64016	0.41	0.25	0.33	<0.05
004145-01				
Method Blank	<0.05	< 0.05	< 0.05	<0.05

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 05/10/00 Date Received: 04/27/00

Project: Metro Self Monitor, M64016

# QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 005024-01 (Duplicate)

hidewiyed				Relative	
	Reporting	Sample	The state of the s		Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.34	0.34	0	0-20
Copper	mg/L (ppm)	0.24	0.25	4	0-20
Nickel	mg/L (ppm)	0.29	0.32	7	0-20
Zinc	mg/L (ppm)	0.15	0.06	vo	0-20

Laboratory Code: 005024-01 (Matrix Spike)

	Francis	Reporting	Spike L	evel	Sample	% F	lecov	ery A	cceptanc	e
Analyte	a Palifica	Units		No. 2 of 1000	Result		MS	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Criteria	
Chromiun	n	mg/L (ppm)	5		0.34		100		80-120	30 0
Copper		mg/L (ppm)	5		0.24		104		80-120	
Nickel		mg/L (ppm)	10		0.29		97		80-120	
Zinc		mg/L (ppm)	5		0.15		97		80-120	

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recover	y % Recovery	Acceptance	e	
Analyte	Units	Level	LCS	LCSD	Criteria	RPD	
Chromium	mg/L (ppm)	5	98	94	80-120	4	
Copper	mg/L (ppm)	5	101	97	80-120	4	
Nickel	mg/L (ppm)	10	100	97	80-120	3	
Zinc	mg/L (ppm)	5	101	97	80-120	4	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

vo - The value reported fell outside the control limits established for this analyte.

C. J

A12

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

# SAMPLE CHAIN OF CUSTODY

	ddress 628 f ity, State, Zip Seas hone # 206-387			oeks			encld A		1.201-20
DI		He ma	98134	-/ 70	2 1/7-0	and the same		. 67	500 1 00 000 0000 000000
PI	hone #	-85+9	FAX #	206-00	Z-430G	6.9	Date <b>4-2</b> :	1-00	
SI	TE NO.		PROJE	CT NAME			PURCHASE	ORDER	.#
	72,38		meteo Se	om Fl	nitoe	n	764016	)	
SA	AMPLARS (signature)					PROJECT I OCATION			
15	Thund S.S.				3200 GHA Ave				e
RI	MARKS					SAMPLE DISPOSAL INFORMATION			
Access to the second se							Dispose after Return Sampl Call for Instru	es	S
L	Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample	#	Aı	nalyses quested	
01/2	n 64016	1-27-00 12:30	1 .	1	,		CR Cu		22
•									
	INATURE incressed by		PRINT NAME		COMPAN		Date	<b>)</b>	Time
	hatel-	- GERBY	A. Thomps	ا ب	ACH	<u>)                                    </u>	4-27	-00	1:00pm
Rec	ceived by	T. E1			FR:		4-27-	00	1.20
Ŕel	inquished by:		W		<u>, u ,                                  </u>			1,	
Rec	ceived by:								

FORMS/COC

03/23/00

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 10, 2000

### **DUPLICATE COPY**

### INVOICE #00ACU0510-1

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, M64016 - Results of testing requested by Gerry Thompson for material submitted on April 27, 2000.

FEDERAL TAX ID 7(b) (6)

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 10, 2000

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 27, 2000 from your Metro Self Monitor, M64016 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kate Trafton

Kate Truf

**Project Manager** 

Enclosures ACU0510R.DOC